

ART 34 AMDT

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MODIFIED CLAIMS

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Replacement original Claims 1-13 with new Claims 1-14 (2 pages)

1.A mammary prosthesis made of polyacrylamide hydrogel, comprising shell 2 which is made of silicon, and polyacrylamide hydrogel 4 filled in said shell 2, said polyacrylamide hydrogel 4 being prepared by adding 2.5-7grams of polyacrylamide dry powder into every 100ml water, said polyacrylamide hydrogel dry power being made in such way that the weight percentage of 2.5 - 8% acylamide, 0.001 - 3.0% cross-linking agent, 0.001 - 4.00% catalyst, 0.001 - 2.00% accelerator, 0.001 - 2.00% facilitator are added into distilled water to be 100% to be polymerized, then be washed, soaked, centrifugal dehydrated and dried.

2.A mammary prosthesis as claimed in claim 1 wherein said cross-linking agent is N , N ' -methylenebisacrylamide and its homologous compound, or N, N ' -diallyltartratdiamide.

3.A mammary prosthesis as claimed in claim 2 wherein said catalyst is ammonium persulfate or kalium persulfate.

4.A mammary prosthesis as claimed in claim 3 wherein said accelerator

is sodium bisulphate or sodium metasilphite.

5.A mammary prosthesis as claimed in claim 4 wherein said facilitators comprise triethanolamide, triethylamine or their N, N' ethylenediamine substances which contains substituting groups.

6.A mammary prosthesis as claimed in claim 6 wherein said shell 2 has a round curved surface.

7.A mammary prosthesis made of polyacrylamide hydrogel wherein it comprises a shell 2 that is made of silicon and has a non-return valve 1, and said shell 2 is filled with dry powder 3 of polyacrylamide hydrogel whose weight is proportional to the volume (ml) of said shell 2; wherein each 100ml volumes of said shell 2 could filled with 2.5-7 grams of said dry powder 3 and said dry powder 3 of polyacrylamide hydrogel is made in such way that the weight percentage of 2.5 - 8% acylamide, 0.001 - 3.0% cross-linking agent, 0.001 - 4.00% catalyst, 0.001 - 2.00% accelerator, 0.001 - 2.00% facilitator are added into distilled water to be 100% polymerized, then washed, soaked, centrifugal dehydrated and dried .

8、 A mammary prosthesis as claimed in claim 7 wherein each 100ml

volumes of said shell 2 could be filled with 4 grams of said dry powder
3 .

9.A mammary prosthesis as claimed in claim 8 wherein said cross-linking agent is N , N ' -methylenebisacrylamide and its homologous compound, or N, N ' -diallyltartratdiamide.

10.A mammary prosthesis as claimed in claim 9 wherein said catalyst is ammonium persulfate or kalium persulfate.

11.A mammary prosthesis as claimed in claim 10 wherein said accelerator is sodium bisulphate or sodium metasulphite.

12.A mammary prosthesis as claimed in claim 11 wherein said facilitators comprise triethanolamide, triethylamine or their N, N ' ethylenediamine substances which contains substituting groups.

13.A mammary prosthesis as claimed in any one of claim 7-12 wherein said shell 2 has a round curved surface.

14.A mammary prosthesis as claimed in any one of claim 7-12 wherein said non-return valve is located in the center of one face of said shell 2.